

ABSTRACT OF THE DISCLOSURE

An apparatus and method for flexibly suspending a sensing mechanism between a pair of cover plates, including a sensing mechanism formed in a crystalline silicon substrate; a pair of cover plates formed in crystalline silicon substrates; a first plurality of 5 complementary interfaces in fixed relation between the sensing mechanism and a first one of the cover plates; and a second plurality of complementary interfaces flexibly suspended between the sensing mechanism and a second one of the cover plates with one or more of the flexibly suspended interfaces being a complementary male and female interface.